

Title (en)
Light emitting device and method of manufacturing a display apparatus

Title (de)
Lichtemittierende Vorrichtung und Verfahren zur Herstellung eines Anzeigegeräts

Title (fr)
Dispositif émetteur de lumière et procédé de fabrication d'un dispositif d'affichage

Publication
EP 1174931 B1 20111228 (EN)

Application
EP 01117483 A 20010719

Priority

- JP 2000219932 A 20000721
- JP 2001202600 A 20010703
- JP 2001217915 A 20010718

Abstract (en)
[origin: EP1174931A2] A light emitting device and display apparatus using a plurality of light emitting devices can drastically reduce contrast loss due to light from an external source. The light emitting device has (a) light emitting chip(s) and a first layer covering the light emitting chip(s). A second layer including a light scattering material is provided at least over the first layer, and the surface of second layer has a plurality of protrusions which follow the topology of the light scattering material. The display apparatus is formed by disposing these light emitting devices in an array on a substrate. <IMAGE>

IPC 8 full level
G09F 9/33 (2006.01); **H01L 33/48** (2010.01); **H01L 25/075** (2006.01); **H01L 33/44** (2010.01); **H01L 33/50** (2010.01); **H01L 33/54** (2010.01); **H01L 33/56** (2010.01); **H01L 33/60** (2010.01); **H01L 33/62** (2010.01)

CPC (source: EP US)
H01L 25/0753 (2013.01 - EP US); **H01L 33/44** (2013.01 - EP US); **H01L 24/45** (2013.01 - EP US); **H01L 2224/45144** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48247** (2013.01 - EP US); **H01L 2224/48257** (2013.01 - EP US); **H01L 2224/48465** (2013.01 - EP US); **H01L 2924/12041** (2013.01 - EP US); **H01L 2924/181** (2013.01 - EP US); **H01L 2933/0091** (2013.01 - EP US); **Y10S 362/80** (2013.01 - EP US)

C-Set (source: EP US)

1. **H01L 2224/48091 + H01L 2924/00014**
2. **H01L 2224/48091 + H01L 2924/00**
3. **H01L 2224/48465 + H01L 2224/48091 + H01L 2924/00**
4. **H01L 2224/45144 + H01L 2924/00014**
5. **H01L 2224/48465 + H01L 2224/48247 + H01L 2924/00**
6. **H01L 2924/12041 + H01L 2924/00**
7. **H01L 2924/181 + H01L 2924/00012**

Cited by
DE102007015474A1; DE102008005936A1; EP1403936A3; EP1962350A1; DE10220583A1; DE10220583B4; EP2148369A1; DE102006004397A1; DE102004015293B3; EP1408559A3; CN111542931A; DE102008033385A1; DE102006059994A1; EP2308103A4; US8378366B2; US7976205B2; US11211524B2; US8026526B2; US8476655B2; WO2019025451A1; WO2008155368A1; WO2008119327A1; EP1733263B1; WO2007025525A3; WO2006114082A3

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